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L5	6	4 not 1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 06:45
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L7	4169	6 not 4 npt 1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 06:46

L8	22	6 not 4 not 1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 06:46
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L10	201	9 and (common or characterizing or "same" or describing) with (information or metadata)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 06:48
L11	10	10 and (annotat\$ or customiz\$) with (information or group or metadata)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 06:49
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Late breaking result papers: Photo annotation on a camera phone Anita Wilhelm, Yuri Takhteyev, Risto Sarvas, Nancy Van House, Marc Davis

April 2004 CHI '04 extended abstracts on Human factors in computing systems Publisher: ACM Press

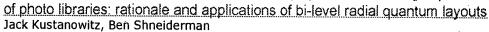
Full text available: pdf(290.52 KB)

Additional Information: full citation, abstract, references, citings, index

In this paper we describe a system that allows users to annotate digital photos at the time of capture. The system uses camera phones with a lightweight client application and a server to store the images and metadata and assists the user in annotation on the camera phone by providing guesses about the location and content of the photos. By conducting user interface testing, surveys, and focus groups we were able to evaluate the usability of this system and uncover usage patterns and motivations ...

Keywords: automated content metadata, digital image management, mobile camera phones, user experience, user motivation, wireless multimedia applications

2 Tools & techniques track: automatically managing media: Meaningful presentations



June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

Full text available: pdf(8.68 MB) Additional Information: full citation, abstract, references, index terms

Searching photo libraries can be made more satisfying and successful if search results are presented in a way that allows users to gain an overview of the photo categories. Since photo layouts on computer displays are the primary way that users get an overview, we propose a novel approach to show more photos in meaningful groupings. Photo layouts can be linear strips, or zoomable three dimensional arrangements, but the most common form is the two-dimensional grid. This paper introduces a novel b ...

Keywords: digital libraries, layout generation, photo management, user interfaces, visual presentation

Brave new topics - session 2: from context to content: leveraging contextual





metadata to infer multimedia content: Context data in geo-referenced digital photo collections

Mor Naaman, Susumu Harada, QianYing Wang, Hector Garcia-Molina, Andreas Paepcke October 2004 Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM Press

Full text available: pdf:540.17 KB) Additional Information: full citation, abstract, references, index terms

Given time and location information about digital photographs we can automatically generate an abundance of related contextual metadata, using off-the-shelf and Webbased data sources. Among these are the local daylight status and weather conditions at the time and place a photo was taken. This metadata has the potential of serving as memory cues and filters when browsing photo collections, especially as these collections grow into the tens of thousands and span dozens of years.

We des ...

**Keywords**: context, geo-referenced digital photos, photo collections

Bringing treasures to the surface: iterative design for the Library of Congress National



Digital Library Program

Catherine Plaisant, Gary Marchionini, Tom Bruns, Anita Komlodi, Laura Campbell March 1997 Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press

Full text available: pdf(1.42 M8)

Additional Information: full citation, references, citings, index terms

Keywords: browse, design process, digital libraries, dynamic query, java, preview, search, web design

Interacting with collections: Lost in memories; interacting with photo collections on



Susumu Harada, Mor Naaman, Yee Jiun Song, QianYing Wang, Andreas Paepcke June 2004 Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(820.51 KB) terms

We developed two browsers to support large personal photo collections on PDAs. Our first browser is based on a traditional, folder-based layout that utilizes either the user's manually created organization structure, or a system-generated structure. Our second browser uses a novel interface that is based on a vertical, zoomable timeline. This timeline browser does not require users to organize their photos, but instead, relies solely on system-generated structure. Our system creates a hierarchic ...

Keywords: digital photos, handheld devices, mobile computing, pen and tactile input, photo browser

Image and cultural digital libraries: Time as essence for photo browsing through



personal digital libraries

Adrian Graham, Hector Garcia-Molina, Andreas Paepcke, Terry Winograd

#### July 2002 Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

Full text available: pdf(3.39 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We developed two photo browsers for collections with thousands of time-stamped digital images. Modern digital cameras record photo shoot times, and semantically related photos tend to occur in bursts. Our browsers exploit the timing information to structure the collections and to automatically generate meaningful summaries. The browsers differ in how users navigate and view the structured collections. We conducted user studies to compare the two browsers and an un-summarized image browser. Our r ...

Keywords: ACDSee, burst identification, image browser, personal digital library, photo browser, summarization, time-based clustering, time-based navigation

7 Late breaking result papers: Collections: flexible, essential tools for information





management

David R. Karger, Dennis Quan

April 2004 CHI '04 extended abstracts on Human factors in computing systems Publisher: ACM Press

Full text available: pdf(255.14 KB) Additional Information: full citation, abstract, references, index terms

While collections-aggregation mechanisms such as folders, buddy lists, photo albums, etc.-clearly play a central role in information management, the potential benefits of true first class support for collections are masked by disparate implementations that force users to pay attention to technological distinctions such as application, format, and protocol. We argue that systems should expose a single unified concept of collection and that concepts such as portals, cross-application projects, cus ...

**Keywords**: collections, folders, portals, semistructured data, taxonomy

8 Geographic aspects of digital libraries: Automatic organization for digital photographs



with geographic coordinates

Mor Naaman, Yee Jiun Song, Andreas Paepcke, Hector Garcia-Molina June 2004 Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

Full text available: ndf(381.48 KB)

Additional Information: full citation, abstract, references, citings, index

We describe PhotoCompas, a system that utilizes the time and location information embedded in digital photographs to automatically organize a personal photo collection PhotoCompas produces browseable location and event hierarchies for the collection. These hierarchies are created using algorithms that interleave time and location to produce an organization that mimics the way people think about their photo collections, In addition, our algorithm annotates the generated hierarchy with geographica ...

Keywords: GPS, geo-referenced photos, personal photo collection, photo browser

9 Social communication: Building social discourse around mobile photos: a systemic perspective



Risto Sarvas, Antti Oulasvirta, Giulio Jacucci

September 2005 Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05

Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, index terms

Camera phones have been viewed simplistically as digital cameras with poor picture quality while neglecting the utility of the two key functionalities of mobile phones: network connection and access to personal information. This is the first HCI paper to examine mobile photos from a *systemic perspective*: how assignment of phases of mobile photo lifecycle to different platforms affects social discourse around shared photos. We conducted a 6-week user trial of MobShare, a tripartite system ...

**Keywords**: camera phones, digital image management, heterogeneity, systemic perspective, user interface design, user study

10 Posters: Automatically generating metadata for digital photographs with geographic



coordinates

Mor Naaman, Yee Jiun Song, Andreas Paepcke, Hector Garcia-Molina

May 2004 Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters

**Publisher: ACM Press** 

Full text available: pdf(308.99 KB) Additional Information: full citation, abstract, references, index terms

Given location information on digital photographs, we can automatically generate an abundance of photo-related metadata using off-the-shelf and web-based data sources. These metadata can serve as additional memory cues and filters when browsing a personal or global collection of photos.

Interactive Exploration of Large Remote Micro-CT Scans Steffen Prohaska, Andrei Hutanu, Ralf Kahler, Hans-Christian Hege October 2004 Proceedings of the conference on Visualization '04

**Publisher: IEEE Computer Society** 

Full text available: pdf(597.53 KB) Additional Information: full citation, abstract

Datasets of tens of gigabytes are becoming common in computational and experimental science. This development is driven by advances in imaging technology, producing detectors with growing resolutions, as well as availability of cheap processing power and memory capacity in commodity-based computing clusters. In this article we describe the design of a visualization system that allows scientists to interactively explore large remote data sets in an efficient and flexible way. The system is broad! ...

**Keywords**: large data, out-of-core-methods, remote visualization, multiresolution visualization

12 Applications, services, and architecture: Smart edge server: beyond a wireless



G. Manjunath, T. Simunic, V. Krishnan, J. Tourrilhes, D. Das, V. Srinivasmurthy, A. McReynolds

October 2004 Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM Press

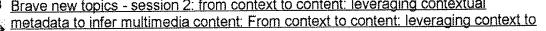
Full text available: pdf(410.68 KB) Additional Information: full citation, abstract, references, index terms

Wireless access at cafes, airports, homes and businesses have proliferated all over the globe with several different Wireless Internet Service Providers. Similarly, digital media has created a paradigm shift in media processing resulting in a complete change in media usage models, revamped existing businesses and has introduced new industry players.

We believe there is a tremendous opportunity for application and system services at the intersection of the above two domains for exploiting the ...

Keywords: access point, low-power, management, media, security, wireless

13 Brave new topics - session 2: from context to content: leveraging contextual



infer media metadata

Marc Davis, Simon King, Nathan Good, Risto Sarvas

October 2004 Proceedings of the 12th annual ACM international conference on Multimedia

**Publisher: ACM Press** 

Full text available: 10 pdf(373.07 KB) Additional Information: full citation, abstract, references, index terms

The recent popularity of mobile camera phones allows for new opportunities to gather important metadata at the point of capture. This paper describes a method for generating metadata for photos using spatial, temporal, and social context. We describe a system we implemented for inferring location information for pictures taken with camera phones and its performance evaluation. We propose that leveraging contextual metadata at the point of capture can address the problems of the semantic and s ...

Keywords: content-based image retrieval, context-to-content inference, contextual metadata, location-based services, mobile camera phones, wireless multimedia applications

14 Usability issues in utilizing context metadata in content management of mobile



devices

Antti Sorvari, Janne Jalkanen, Riitta Jokela, Alastair Black, Kimmo Koli, Marko Moberg, Turkka Keinonen

October 2004 Proceedings of the third Nordic conference on Human-computer interaction NordiCHI '04

Publisher: ACM Press

Full text available: pdf(148.54 KB) Additional Information: full citation, abstract, references, index terms

Mobile devices and their novel applications are handling increasing amounts of new type of content such as video, images, messages and music. Managing large amounts of data introduces a usability challenge that cannot be solved without developing new ways of managing the content. The use of context metadata is presented here as one of the ways to aid content management. This paper investigates the usability issues that are introduced by the usage of context metadata such as time, date, locati ...

Keywords: content management, context, location, metadata, usability

15 Technical session 9: still and moving images: MobShare: controlled and immediate



sharing of mobile images

Risto Sarvas, Mikko Viikari, Juha Pesonen, Hanno Nevanlinna

October 2004 Proceedings of the 12th annual ACM international conference on Multimedia

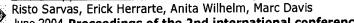
Publisher: ACM Press

Full text available: pdf(899.76 KB) Additional Information: full citation, abstract, references, index terms

In this paper we describe the design and implementation of a mobile one picture sharing system <i>MobShare</i> that enables immediate, controlled, and organized sharing of mobile pictures, and the browsing, combining, and discussion of the shared pictures. The design combines research on otogray, personal image management, mobile one camera use, mobile picture publishing, and an interview study we conducted on mobile one camera users. The system is based on a client-server architectur ...

Keywords: camera ones, digital image management, multimedia tools, wireless multimedia applications

16 Mobile applications: Metadata creation system for mobile images



June 2004 Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(564.05 KB) terms

The amount of personal digital media is increasing, and managing it has become a pressing problem. Effective management of media content is not possible without content-related metadata. In this paper we describe a content metadata creation process for images taken with a mobile phone. The design goals were to automate the creation of image content metadata by leveraging automatically available contextual metadata on the mobile phone, to use similarity processing algorithms for reusing shared me ...

Keywords: automated content metadata, content-based image retrieval, digital image management, mobile camera phones, wireless multimedia applications

Storytelling with digital photographs

Marko Balabanović, Lonny L. Chu, Gregory J. Wolff

April 2000 Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdi(1.12 MB)

Photographs play a central role in many types of informal storytelling. This paper describes an easy-to-use device that enables digital photos to be used in a manner similar to print photos for sharing personal stories. A portable form factor combined with a novel interface supports local sharing like a conventional photo album as well as recording of stories that can be sent to distant friends and relatives. User tests validate the design and reveal that people alternate between "photo ...

Keywords: browsing, digital photography, digital storytelling, multimedia organization

18 Temporal event clustering for digital photo collections

Matthew Cooper, Jonathan Foote, Andreas Girgensohn, Lynn Wilcox

August 2005 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 1 Issue 3

**Publisher: ACM Press** 

Full text available: pdf(5.20 MB) Additional Information: full citation, abstract, references, index terms

Organizing digital photograph collections according to events such as holiday gatherings or vacations is a common practice among photographers. To support photographers in this task, we present similarity-based methods to cluster digital photos by time and image content. The approach is general and unsupervised, and makes minimal assumptions regarding the structure or statistics of the photo collection. We present several variants of an automatic unsupervised algorithm to partition a collection ...

**Keywords:** Digital photo organization, digital libraries, temporal media indexing

19 Exploring the potentials of combining photo annotating tasks with instant messaging



Yuechen Qian, Loe M. G. Feijs

October 2004 Proceedings of the 3rd international conference on Mobile and ubiquitous multimedia MUM '04

Publisher: ACM Press

Full text available: pdf(834.20 KB) Additional Information: full citation, abstract, references, index terms

The combination of photo annotation tasks and with instant messaging fun offers great potentials to both end-users and researchers. In this paper, we first describe our prototype system that allows users to share and annotate digital photos over the Internet while they are chatting online. In addition to manual annotation, our system can extract information from conversations to generate extra annotations. The advantage of using our system is that the boring and tedious task of annotating photos ...

Keywords: annotation, digital photos, instant messaging systems, metadata

20 Papers: Information visualization: PhotoMesa: a zoomable image browser using



quantum treemaps and bubblemaps

Benjamin B. Bederson

November 2001 Proceedings of the 14th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available: pdi(1.34 MB)

Additional Information: full citation, abstract, references, citings, index

PhotoMesa is a zoomable image browser that uses a novel treemap algorithm to present large numbers of images grouped by directory, or other available metadata. It uses a new interaction technique for zoomable user interfaces designed for novices and family use that makes it straightforward to navigate through the space of images, and impossible to get lost. PhotoMesa groups images using one of two new algorithms that lay out groups of objects in a 2D space-filling manner. Quantum treemaps ...

Keywords: Animation, Graphics, Image Browsers, Jazz, Treemaps, Zoomable User Interfaces (ZUIs)

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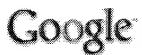
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L15	0	(((picture or photo or photograph) same (group or unit)) and (entry or input) with (region or section or area) and (customized or annotated or customize or annotate) with (metadata)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/14 06:52
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